Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol.68 No.8 AUGUST 1990

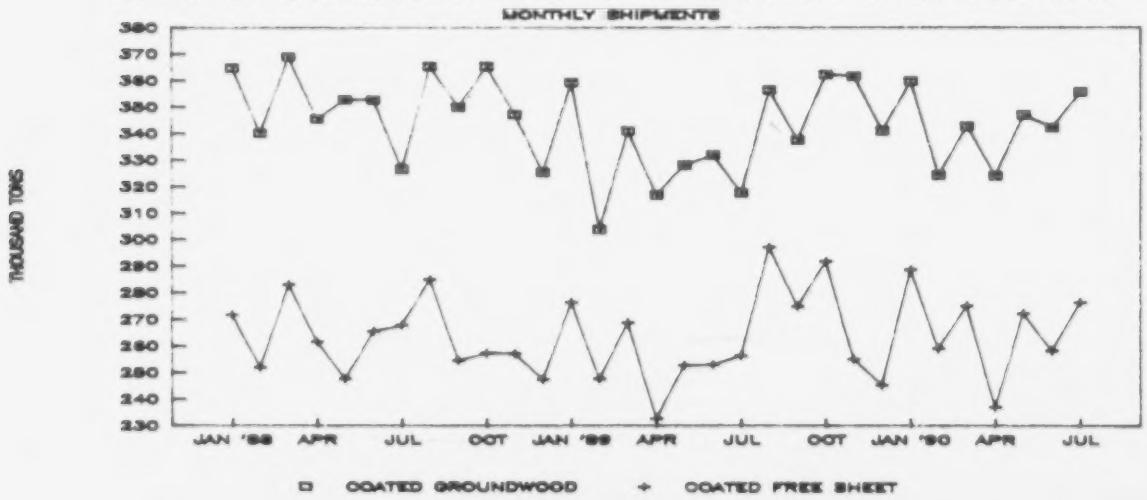
PAPER AND PAPERBOARD PRODUCTION: HOLDING UP WELL

In the face of widespread reports of a slow-growth economy, paper and paperboard demand continued to move ahead of its year-earlier levels. In the first seven months of 1990 domestic production posted a 1.9% gain over its year-ago total while total new supply (production plus imports less exports) increased an estimated 1.6%.

Most of the advances were in the paper grades, with total paper production rising 3.2%, paperboard 0.7%. These trends reflected the slower growth in the manufacturing sectors -- the major markets for paperboard packaging -- relative to those of the service sectors. Total industrial production, for example, was 0.9% above its comparable 1989 level in the first seven months of 1990; real GNP was up 1.3% in the first half of 1990.

Paper: Gains in the paper sector continue to be dominated by newsprint and the larger printing-writing grades. The increases in domestic newsprint production can be traced to the three new machines that came on line during 1989. Total consumption of newsprint by publishers in the January-July 1990 period, as reported by the Canadian Pulp and Paper Association, was up 1.6%, while shipments of newsprint from Canada, also as reported by the CPPA, showed a 0.8% increase. Newspaper publishers continue to keep tight control of newsprint inventories, with the July 31, 1990 total 0.8% below its year-ago level and 14% below July 1988.

COATED GROUNDWOOD AND COATED FREE SHEET



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Led by gains in coated papers, domestic shipments of printing-writing papers were 3.3% above their January-July 1989 total in the comparable 1990 period. These data are based on the API's Printing-Writing Division annual audit of shipments. Minor changes were noted in the coated paper and uncoated free sheet totals, while a significant downward revision was reported for uncoated groundwood paper shipments.

Total trade in the printing-writing grades has been growing strongly. First half 1990 imports, reported at 3 million tons per year, were 10.7% above their year-ago level; exports, at 677,000 tons per year, were up 43%.

The Printing-Writing Paper Division has made available separate shipments data on coated groundwood and coated free sheet papers which appears in this report (see chart on preceding page and table on page 3). Annual data for the 1982-1989 period will be published in the API's 1990 edition of the Statistics of Paper, Paperboard and Wood Pulp.

Shipments of coated free sheet papers have recently been growing somewhat faster than those of the coated groundwood grades. The coated free sheet grades are used in direct mail advertising, merchandising brochures, annual reports and similar publications, while coated groundwood papers comprise most of the paper for magazines. Coated groundwood papers now account for 56% of total domestic coated paper shipments.

Imports of coated papers have been rising sharply, largely in coated groundwood: Census data show first half 1990 total coated paper imports 26% above those of the first half of 1989, accounting for about 12% of total purchases. Coated groundwood paper imports, at an annual rate of 676,000 tons, gained 29%, coated free sheet papers, at 271,000 tons per year, 20%. The sources of coated free sheet paper imports are fairly well distributed among all the producing countries. Nearly half the imports of coated groundwood papers, however, come from Canada, with Finland supplying another quarter and West Germany about 15%.

Strongest markets for uncoated free sheet papers were in the printing grades. A 5.9% increase was reported for the offset (printing paper) grades for the first half of 1990 vs. 1989. Shipments of bond and writing papers were up 1.4%, while form bond paper fell by 3.8%.

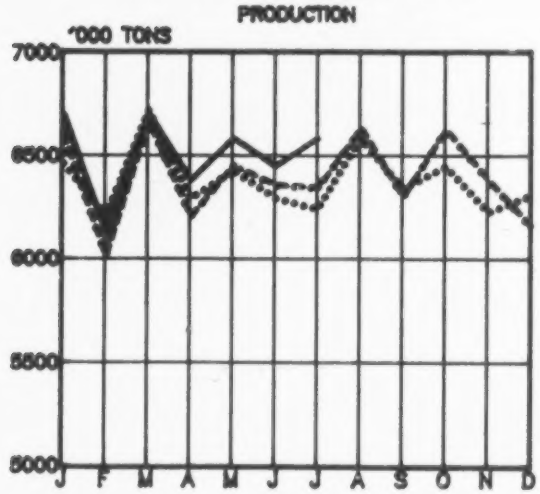
Packaging papers shipments continue to decline. The January-July 1990 total for unbleached kraft papers was down 9.4% from its year-earlier level, with the losses concentrated in the wrapping and bag and sack grades. Multiwall sack paper shipments were 1.9% below their year-ago totals, while other converting papers (accounting for 7.6% of the total) gained 12%. Unbleached kraft paper imports have been growing, and now account for 9% of new supply. Shipments

PAPER AND PAPERBOARD STATISTICS PRODUCTION, SHIPMENTS AND ORDERS (Thousands of Tons)	YEAR 1988	YEAR 1989	APR 1990	MAY 1990	JUNE (R) 1990	JULY (P) 1990	Annual Rate Y-T-D 1990	% Change From Same Period Last Year
PAPER								
Newsprint - Production	5,982	6,088	541	545	539	560	6,499	8.7
- Shipments	5,989	6,079	544	553	536	560	6,513	9.8
Printing & Writing: Total Shipments	21,860	21,607	1,782	1,840	1,766	1,867	22,108	3.3
Groundwood Paper - Shipments	1,624	1,743	140	138	141	157	1,751	2.0
- New Orders	1,654	1,773	115	158	173	162	1,785	3.7
- Unfilled Orders	208	210	140	170	195	200	200	5.4
Coated Groundwood - Shipments	4,204	4,059	324	347	342	356	4,108	4.2
Coated Free Sheet - Shipments	3,155	3,157	237	273	259	277	3,204	4.4
Total Coated Papers - Shipments	7,359	7,215	562	620	601	633	7,313	4.3
- New Orders	7,412	7,284	648	614	647	655	7,482	4.4
- Unfilled Orders	751	824	728	761	788	825	825	-0.4
Unctd Free Sheet - Shipments	11,277	11,081	958	957	904	984	11,498	3.8
- New Orders	11,298	11,170	977	1,007	984	917	11,728	8.5
- Unfilled Orders	790	785	738	831	893	832	832	50.2
Thin Papers - Shipments	281	245	16	17	15	14	225	-11.4
Cotton Fiber Paper - Shipments	169	161	14	14	14	11	166	0.5
Bleached Bristols - Shipments	1,150	1,163	92	94	92	89	1,155	-2.2
Tissue Paper - Production	5,476	5,636	467	494	479	480	5,733	2.7
Total Packaging & Other Paper	5,047	4,925	379	406	394	386	4,669	-3.7
Unbl. Kraft Paper - Shipments	2,800	2,681	187	206	208	206	2,405	-9.4
Other Paper - Production	2,247	2,243	191	201	186	179	2,264	3.3
TOTAL PAPER PRODUCTION - UNADJUSTED	38,366	38,256	3,168	3,284	3,177	3,293	39,009	3.2
TOTAL PAPER PRODUCTION - SEAS ADJ			3,232	3,308	3,224	3,380	39,293	3.2
PAPERBOARD - PRODUCTION								
Containerboard	26,225	26,428	2,200	2,282	2,251	2,334	26,923	1.4
Cont'bd For Dom Use for Fibre Boxes	23,563	23,752	1,977	2,013	1,997	2,084	23,921	0.4
Total Linerboard	16,177	16,399	1,359	1,371	1,390	1,447	16,477	0.0
Unbleached Kraft	15,601	15,833	1,325	1,333	1,354	1,410	16,048	1.0
Solid Bleached	170	178	11	9	10	10	129	-29.3
Recycled	407	388	24	30	26	27	301	-24.8
Corrugating Medium	7,351	7,339	618	640	607	637	7,435	1.4
Semichemical	5,528	5,554	456	483	450	481	5,550	-0.1
Recycled	1,823	1,785	162	158	156	156	1,885	6.2
Container Chip and Filler	35	14	0	1	0	1	9	-44.2
Other Containerboard for Dom Use	320	307	22	33	22	27	294	-6.4
Containerboard for Export	2,342	2,369	201	236	231	222	2,708	12.0
Boxboard	11,878	12,029	1,002	1,010	1,012	951	11,998	-1.0
Boxboard for Packaging for Dom Use	7,014	7,076	577	595	586	564	7,009	-2.3
Folding Boxboard	5,293	5,370	415	442	432	415	5,206	-3.9
Solid Bleached	2,017	1,980	147	159	156	151	1,871	-6.1
Unbleached Kraft	924	987	72	83	75	77	935	-7.2
Recycled	2,353	2,403	196	200	201	187	2,400	-0.7
Set-up Boxboard for Dom Use	279	288	29	27	25	20	312	6.8
Milk Carton & Food Service Dom Use	1,442	1,419	133	126	129	129	1,491	1.5
Other Boxboard for Domestic Use	4,075	4,089	338	341	346	321	4,032	-2.2
Boxboard for Export	789	863	87	75	80	66	957	16.5
Paperboard Production by Furnish	38,103	38,456	3,202	3,292	3,262	3,284	38,921	0.7
Unbleached Kraft	19,140	19,490	1,627	1,683	1,681	1,735	19,996	2.0
Semichemical	5,664	5,691	466	499	467	493	5,708	0.2
Solid Bleached Kraft	4,511	4,521	378	368	376	380	4,474	-1.4
Recycled	8,788	8,754	731	742	738	696	8,742	-1.0
Paperboard Production for Export	3,132	3,232	288	312	311	288	3,665	13.1
Unbleached Kraft	2,296	2,363	208	235	229	222	2,721	13.6
Semichemical	136	138	10	16	17	12	158	9.9
Bleached Kraft	628	693	65	56	61	50	736	11.3
Recycled	72	38	4	5	4	4	49	32.0
TOTAL PAPERBOARD PRODUCTION - UNADJ	38,103	38,456	3,202	3,292	3,262	3,284	38,921	0.7
TOTAL PAPERBOARD PROD - SEAS ADJ			3,266	3,191	3,258	3,268	38,731	0.6
PAPER AND PAPERBOARD - UNADJ	76,469	76,713	6,371	6,576	6,440	6,578	77,930	1.9
PAPER AND PAPERBOARD - SEAS ADJ			6,498	6,500	6,483	6,647	78,024	1.9

R - Revised P - Preliminary Seas. Adj. - Seasonally Adjusted Unadj - Not Seasonally Adjusted

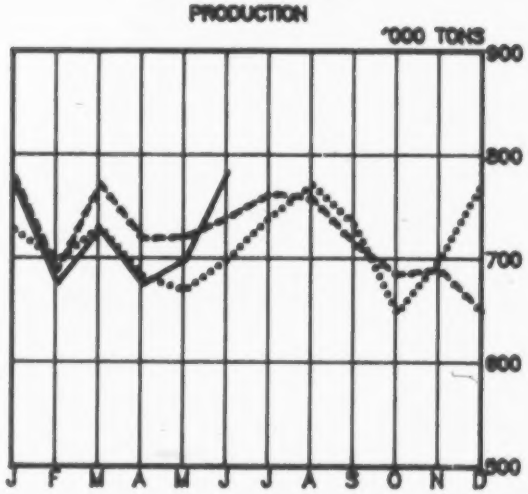
TOTAL PAPER AND PAPERBOARD

PRODUCTION



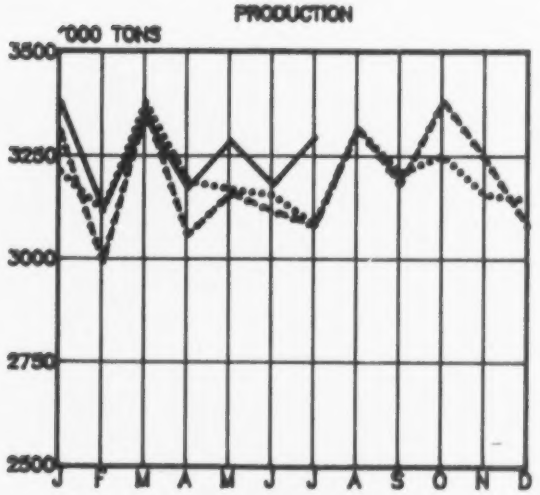
MARKET WOOD PULP

PRODUCTION



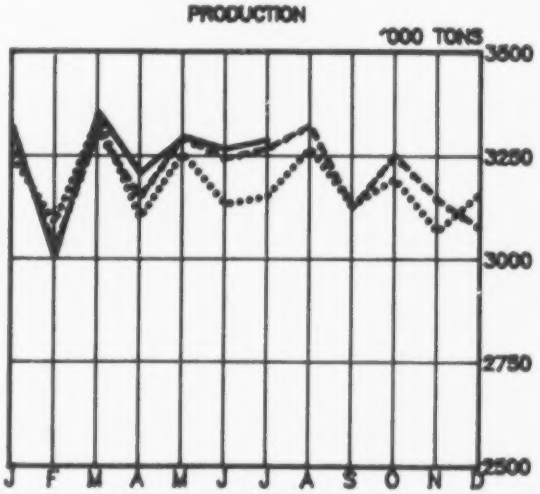
TOTAL PAPER

PRODUCTION



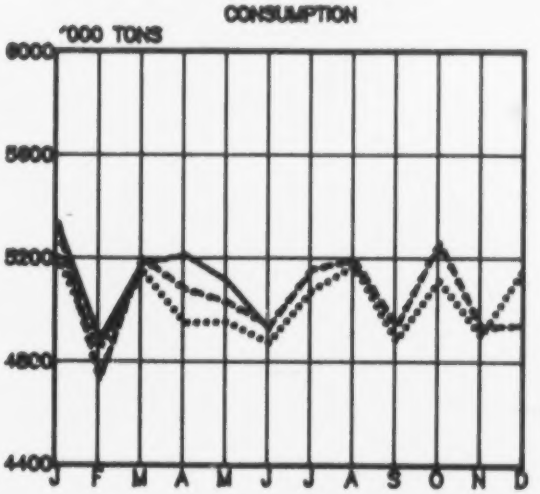
TOTAL PAPERBOARD

PRODUCTION



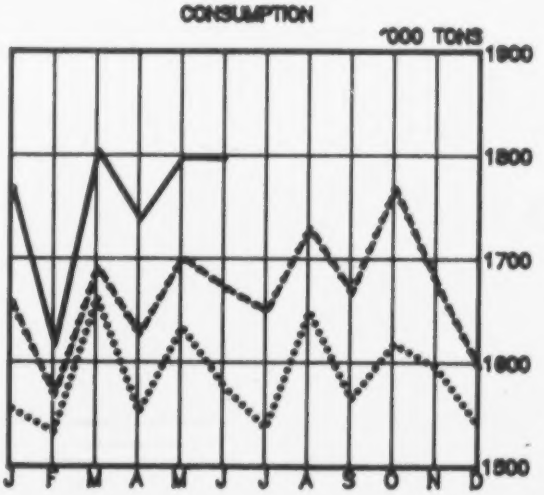
TOTAL WOOD PULP

CONSUMPTION



TOTAL WASTE PAPER

CONSUMPTION



1988 ····· 1989 - - - - - 1990 ——

WOOD PULP STATISTICS (Thousands of Tons)			YEAR 1988	YEAR 1989	MAR 1990	APR 1990	MAY (R) 1990	JUNE (P) 1990	Annual Rate Y-T-D 1990	% Change From Same Period Last Year
TOTAL WOOD PULP										
Total Wood Pulp	Production		61,161	61,998	5,272	5,254	5,156	5,173	62,643	1.2
	Imports	A	5,038	5,005	429	418	428	364	4,951	-1.8
	Exports		5,528	6,231	578	538	443	560	5,898	-7.2
	New Supply		60,671	60,772	5,123	5,134	5,141	4,976	61,696	1.9
Dissolving Pulp	Production		1,367	1,425	123	98	103	114	1,301	-5.1
	Imports		248	284	23	15	27	10	226	-24.9
	Exports		865	836	71	71	64	86	804	-4.8
	New Supply		751	873	74	42	66	38	723	-12.6
Paper Grades	Production		49,493	50,181	4,275	4,220	4,158	4,199	50,641	0.8
Chemical Pulp	Imports	A	4,419	4,370	373	371	368	328	4,361	-1.6
	Exports		4,612	5,325	503	460	377	469	5,041	-7.2
	New Supply		49,300	49,226	4,145	4,131	4,150	4,058	49,960	1.5
Groundwood and	Production		5,943	6,029	509	540	522	519	6,292	6.9
Thermo-Mech	Imports	A	371	351	33	31	32	26	365	19.3
	Exports		51	70	3	8	2	5	53	-31.3
	New Supply		6,263	6,309	539	563	552	540	6,604	8.0
Semi-Chemical	Production		4,358	4,363	365	397	373	341	4,409	0.8
	Imports									
	Exports									
	New Supply		4,358	4,363	365	397	373	341	4,409	0.8
MARKET WOOD PULP										
Total Market	Production		8,565	8,664	727	674	698	783	8,653	-2.0
Wood Pulp	Imports		3,471	3,340	249	263	257	240	3,072	-8.6
	Exports		5,071	5,310	508	446	422	564	5,369	-1.4
	New Supply		6,966	6,694	468	491	533	460	6,356	-5.7
Dissolving Pulp	Production		1,365	1,422	122	97	103	113	1,300	-5.0
	Imports		206	210	18	8	25	7	163	-26.5
	Exports		798	821	75	59	60	90	800	-3.8
	New Supply		774	810	65	47	67	31	663	-12.5
Paper Grades	Production		7,200	7,242	605	577	595	669	7,350	-1.4
Chemical Pulp	Imports		3,126	3,072	229	254	231	231	2,889	-6.0
	Exports		4,273	4,489	433	387	362	474	4,569	-1.0
	New Supply		6,052	5,825	401	444	464	426	5,670	-4.2
Groundwood Pulp	Production		0	0	0	0	0	2	0	0.0
and All Other	Imports		139	58	2	1	2	1	20	-68.7
	Exports		0	0	0	0	0	0	0	0.0
	New Supply		139	58	2	1	2	3	23	-64.0

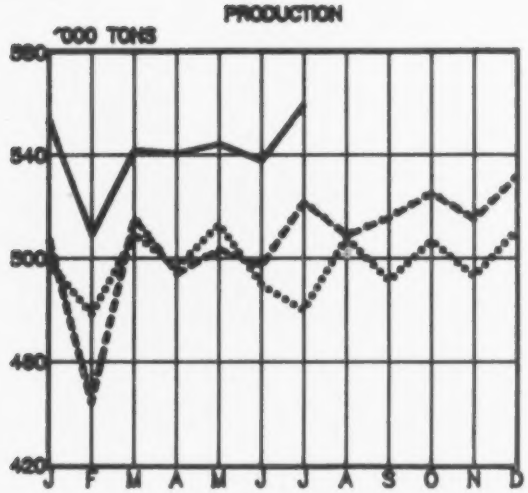
SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.
NOTE: A - API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

FIBROUS RAW MATERIALS (Thousands of tons)	YEAR 1988	YEAR 1989	MAR 1990	APR 1990	MAY (R) 1990	JUNE (P) 1990	Annual Rate 1990	% Change From Same Period Last Year
CONSUMPTION AT PAPER & PAPERBOARD MILLS								
Total	79,315	80,737	6,986	6,950	6,909	6,721	82,335	2.4
Total Wood Pulp	60,294	60,727	5,181	5,212	5,110	4,923	61,285	1.1
Waste Paper	19,021	20,010	1,805	1,739	1,799	1,798	21,050	6.1
INVENTORIES								
Chemical Paper Grade Market Pulp								
Producers' Own-Use Inventories	172	193	202	196	184	214	214	30.4
Producers' Market Inventories	261	342	487	455	451	437	437	46.0
Consumers' Purchased Inventories #	622	519	475	431	437	485	485	-17.4
Waste Paper at Paper & Bd. Mills	1,044	1,085	1,031	1,006	1,016	1,029	1,029	-4.1
Days of Supply at Pulp Mills of								
Chemical Paper Grade Mkt Pulp	14	19	26	22	22	21	21	40.0

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.
Includes all grades of wood pulp
P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

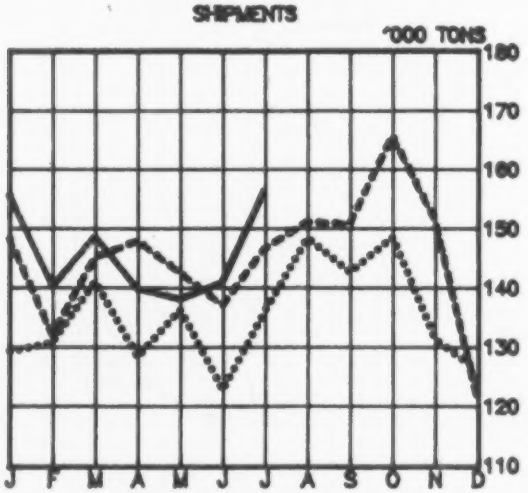
NEWSPRINT

PRODUCTION



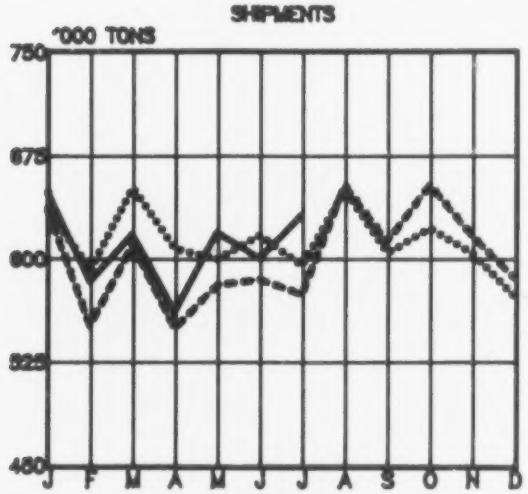
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



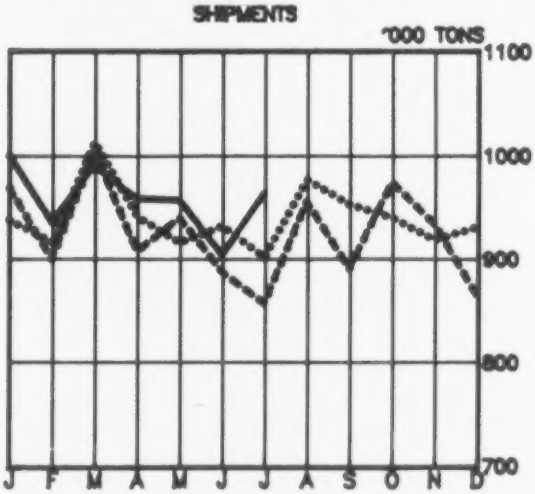
COATED PAPER

SHIPMENTS



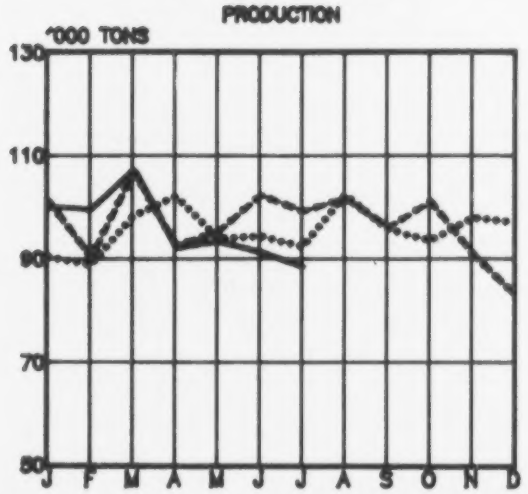
UNCOATED FREE SHEET PAPERS

SHIPMENTS



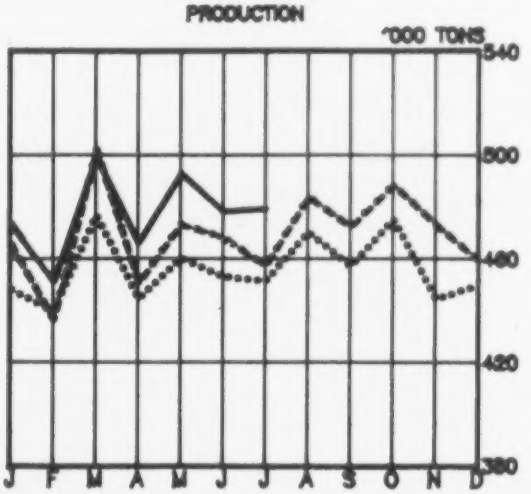
BLEACHED BRISTOLS

PRODUCTION



TISSUE PAPER

PRODUCTION



1988 ····· 1989 - - - - 1990 ——

FIBROUS RAW MATERIALS (Thousands of Standard (128 Cu. ft.) Cord	YEAR 1988	YEAR 1989	MARCH 1990	APRIL 1990	MAY 1990	JUNE 1990	ANNUAL RATE Y-T-D 1990	% CHANGE FROM SAME PD LAST YEAR
PULPWOOD								
Total U.S. – Total Receipts	96,537	99,279	8,260	8,138	8,014	8,006	98,748	1.9
– Total Consumpt	96,497	98,414	8,341	8,260	8,113	8,042	98,834	1.1
– Residues *	33,186	34,539	2,927	3,063	2,996	2,888	35,856	5.0
– Inventories	4,888	5,462	5,433	5,209	5,177	5,167	5,167	19.0
So. Atlantic – Total Receipts	31,582	31,982	2,780	2,759	2,652	2,644	32,822	3.9
– Total Consumpt	31,567	32,239	2,750	2,783	2,663	2,660	32,518	0.9
– Residues *	9,897	9,981	924	921	880	903	11,060	13.0
– Inventories	1,200	936	1,036	1,048	1,077	1,082	1,082	18.8
Northeast – Total Receipts	7,187	7,242	586	626	610	601	7,128	-0.9
– Total Consumpt	7,218	7,072	607	648	636	603	7,248	0.4
– Residues *	1,664	1,575	126	126	120	129	1,506	-11.2
– Inventories	572	522	549	470	413	378	378	-14.3
South Central – Total Receipts	33,751	35,840	3,113	3,081	3,012	2,933	36,264	5.0
– Total Consumpt	33,648	35,791	3,077	2,927	2,996	2,908	36,980	2.5
– Residues *	9,890	10,539	936	996	1,016	931	11,442	11.8
– Inventories	1,160	1,336	1,221	1,223	1,184	1,192	1,192	39.1
North Central – Total Receipts	6,866	7,020	640	489	566	602	7,030	2.7
– Total Consumpt	6,929	6,983	596	596	608	579	7,160	1.8
– Residues *	1,334	1,422	108	118	116	106	1,324	-6.5
– Inventories	839	938	1,030	891	849	877	877	14.2
West – Total Receipts	18,152	17,195	1,241	1,323	1,284	1,226	16,484	-7.2
– Total Consumpt	18,139	18,349	1,312	1,326	1,311	1,289	18,930	-1.5
– Residues *	10,401	11,042	833	902	856	820	10,324	-4.7
– Inventories	1,117	1,730	1,598	1,577	1,674	1,638	1,638	19.9

* - Consumption of Residues in cords equivalent

SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA		IMPORTS FROM CANADA * YEAR 1989 Tons	YEAR 1989 ($000)	MAY 1990 Tons	MAY 1990 ($000)	JUNE 1990 Tons	JUNE 1990 ($000)	ANNUAL RATE Y-T-D 1990 Tons	% CHANGE FROM SAME PD LAST YEAR
Pulpwood, Roundwood (in cubic meters)		211,061	4,582	0	0	0	0	0	-100.0
Pulpwood chips		792,186	27,339	72,184	2,125	44,458	1,478	699,469	-24.5
Wood Pulp, Total	A	4,353,343	2,599,247	376,208	228,893	329,467	197,872	4,458,205	1.1
Waste Fibrous Materials, Total		164,217	31,659	15,230	4,470	10,248	2,480	147,876	-19.2
Paper, Board & Products, Total	A	10,966,831	6,104,181	961,967	527,946	962,031	537,878	11,463,491	5.1
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	A	10,807,859	5,782,419	948,967	496,401	939,225	509,913	11,309,294	5.8
Paper, Paperboard & Products	A	10,830,545	6,065,466	952,283	525,148	941,428	534,979	11,348,923	5.7
Paper & Paperboard, Only	A	10,661,373	5,743,703	939,283	493,603	928,622	507,014	11,194,725	5.3
Paper, Total	A	10,234,268	5,579,018	896,748	476,879	886,762	490,345	10,700,271	5.8
Newsprint	A	8,330,874	4,278,705	716,618	367,145	696,801	361,655	8,480,836	2.6
Printing, Writing & Rel. Pap.	A	1,579,696	1,089,263	152,297	99,640	157,798	105,298	1,869,450	21.6
Pack. & Ind. Conv. Paper		217,159	119,140	18,232	9,285	18,372	10,149	212,023	0.4
Special Industrial Paper		49,045	60,344	4,358	4,836	5,486	6,001	83,272	57.6
Tissue Paper		57,481	51,567	7,243	6,171	8,315	7,245	74,891	32.1
Paperboard, Total		417,117	164,585	42,536	16,724	42,870	16,669	494,455	18.0
Convtd Paper&Paperbd Products		179,172	321,762	13,000	31,544	12,806	27,965	154,198	-23.3
Wet Machine Board		293	245	89	73	70	54	969	179.9
Construction Paper & Board		156,993	38,472	9,585	2,724	10,533	2,845	113,609	-35.1

NOTE: A - API shifted Import data from January 1989 to December 1988 to compensate for misallocation of reported data.

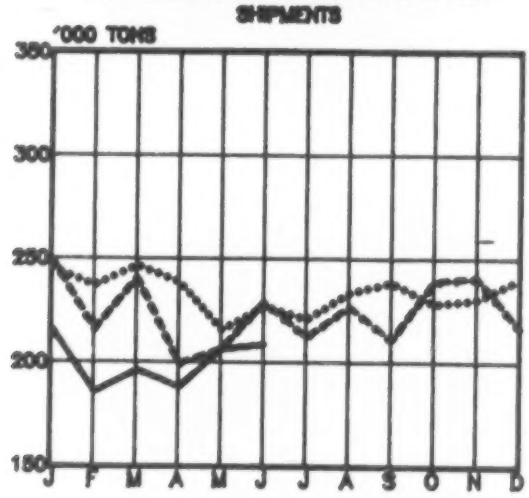
NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

	EXPORTS TO CANADA *							
Pulpwood, Roundwood (in cubic meters)	82,892	1,120	24,738	1,796	81,674	2,096	468,322	1113.7
Pulpwood chips	28,218	1,241	17,172	804	19,893	929	189,578	732.4
Wood Pulp, Total	352,896	141,272	27,432	13,721	29,776	14,705	374,267	12.1
Cotton Pulp & Other Pulp	6,215	4,249	336	344	462	451	4,453	-35.8
Waste Paper	284,379	38,555	53,715	9,503	66,785	11,711	839,996	102.4
Paper, Board & Products, Total	1,083,228	783,813	99,907	111,449	106,995	115,966	1,193,853	18.0
Paper, Paperboard,Wet Machine Bd. & Constr. Paper & Bd.	754,575	497,470	74,002	86,547	78,709	89,963	898,132	28.8
Paper, Paperboard & Products	1,062,580	755,810	99,662	111,306	106,684	115,738	1,191,880	20.2
Paper & Paperboard, Only	733,907	489,868	73,756	86,406	78,398	89,725	896,980	32.4
Paper, Total	371,208	340,312	42,624	49,236	40,811	47,481	515,585	49.0
Newsprint	8,316	5,891	1,532	891	1,211	872	19,004	156.6
Printing, Writing & Rel. Pap.	228,021	222,055	30,548	34,678	30,239	34,660	376,068	75.9
Pack. & Ind. Conv. Paper	65,390	29,624	3,654	2,707	4,043	2,730	48,540	-4.9
Special Industrial Paper	62,645	72,955	5,421	9,659	4,248	8,191	58,902	-12.7
Tissue Paper	6,834	9,787	1,171	1,302	1,070	1,228	13,071	106.1
Paperboard, Total	362,701	149,356	31,232	19,170	37,587	22,244	380,374	15.0
Convtd Paper&Paperbd Products	328,663	266,143	25,906	42,901	28,288	48,013	295,720	-8.1
Wet Machine Board	1,628	880	0	0	0	0	0	-100.0
Construction Paper & Board	19,040	7,143	245	142	311	228	2,173	-87.9

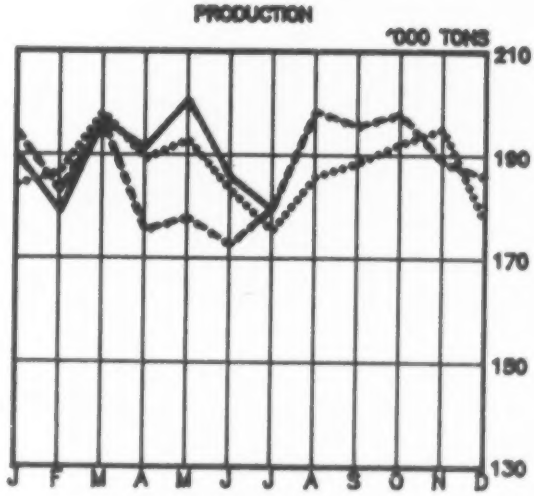
SOURCE: Bureau of Census, Department of Commerce.

E - Estimate of tonnage based on square foot data

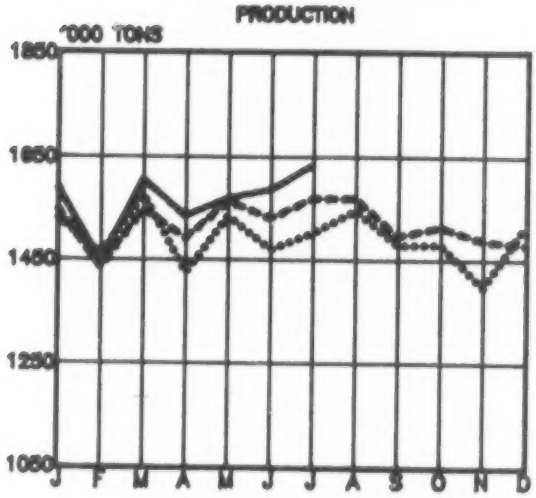
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER
SHIPMENTS



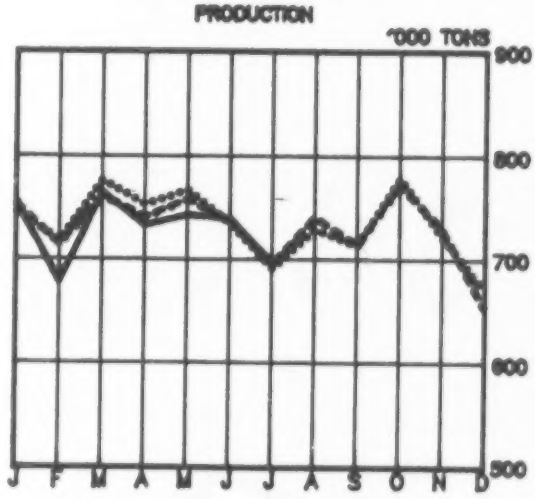
OTHER PAPER
PRODUCTION



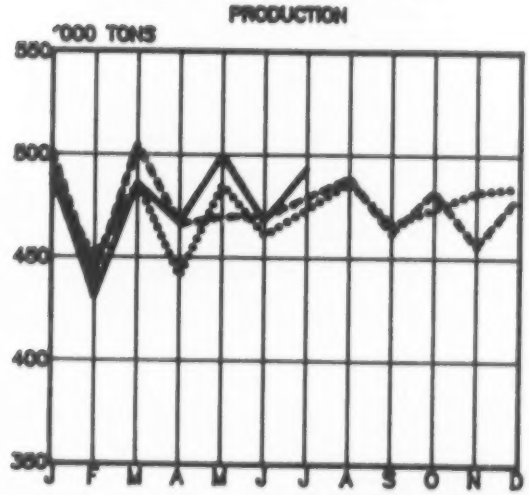
UNBLEACHED KRAFT LINERBOARD
PRODUCTION



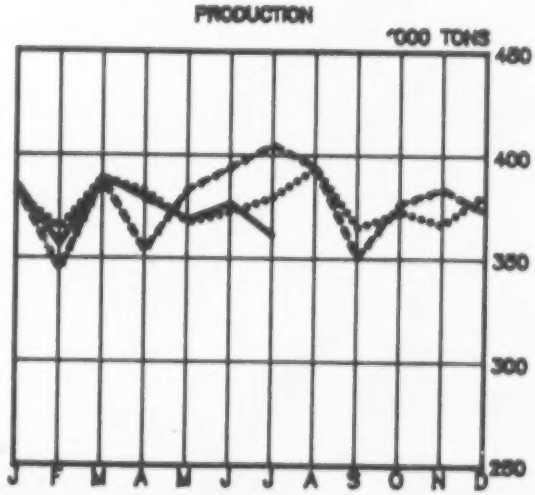
RECYCLED PAPERBOARD
PRODUCTION



SEMICHEMICAL PAPERBOARD
PRODUCTION



SOLID BLEACHED PAPERBOARD
PRODUCTION



1988 ••••••••• 1989 - - - - - 1990 ———

PULP, PAPER AND PAPERBOARD IMPORTS		YEAR 1990		MAY 1990		JUNE 1990		Annual Rate YTD 1990	% Change from same Period
		Tons	$000	Tons	$000	Tons	$000	Tons (1)	Last Year
Pulpwood Roundwood (cubic meters)		211,061	4,562	0	0	0	0	0	-100.0
Pulpwood Chips		806,381	27,789	72,242	2,142	44,556	1,484	700,384	-26.4
Total All Imports	A	18,288,860	11,352,263	1,554,100	949,969	1,494,992	935,821	18,505,446	0.8
Wood Pulp Total	A	5,005,100	2,980,642	427,910	256,916	383,722	216,192	4,951,468	-1.8
Waste Paper		172,575	33,187	14,877	4,172	9,417	1,843	137,069	-29.7
Other Fibrous Materials		11,254	8,518	943	407	1,263	1,022	14,858	-1.7
Paper Board & Products Total	A	13,099,931	8,329,906	1,110,871	688,774	1,120,890	716,764	13,402,228	2.2
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	A	12,537,474	7,231,848	1,073,564	602,338	1,096,423	634,862	12,979,856	3.9
Paper Ppbd & Prds ex Cnst&WMB	A	12,910,206	8,279,503	1,099,927	685,446	1,108,748	713,186	13,274,091	2.8
Paper & Paperboard Only	A	12,347,748	7,181,244	1,062,820	599,008	1,074,579	631,073	12,848,817	4.7
Paper Total	A	11,814,263	6,900,798	1,012,499	575,293	1,021,837	606,728	12,256,770	4.5
Newsprint	A	8,563,401	4,379,613	740,885	367,587	709,982	367,981	8,686,204	2.2
Printing & Writing	A	2,732,978	1,996,141	226,786	160,662	262,504	180,003	3,022,680	10.7
Uncoated Groundwood		1,304,114	817,785	99,980	60,944	108,171	67,580	1,305,561	-0.5
Coated Print & Impreg. Pap.	A	774,022	632,484	67,241	52,598	67,745	59,436	946,243	29.0
Uncoated Free Sheet	A	583,077	462,404	53,406	40,147	69,742	48,093	685,401	17.5
Thin (except Cigarette)		12,711	15,200	840	861	963	1,006	10,958	-14.3
Bristols		56,052	68,267	5,340	6,022	6,184	6,891	84,528	3.0
Total Pkg & Other Paper		407,087	414,353	35,007	36,296	37,566	38,363	432,002	11.8
Unbleached Kraft Paper		239,303	116,011	18,953	9,330	22,634	10,968	234,585	1.2
Other Pkg. & Indust. Paper		167,785	298,342	16,055	28,969	14,921	27,405	197,417	27.7
Tissue		120,797	110,691	10,021	8,745	11,816	10,380	115,884	0.5
Paperboard, Total		533,486	290,446	50,321	23,715	52,742	24,345	592,047	9.5
Test or Containerboard		85,048	34,401	9,025	3,827	10,990	4,772	130,373	66.1
Semi-Chemical Corrugating		118,176	36,462	9,783	2,795	8,613	2,507	111,714	-15.7
Other Paperboard		330,262	209,584	31,513	17,094	33,149	17,066	349,980	5.8
Convtd Paper&Paperbd Products		582,457	1,098,259	37,107	86,438	34,167	82,112	425,274	-32.2
Paper Products, Total		470,471	924,729	27,140	69,111	24,837	66,447	321,810	-39.2
Paperboard Products, Total		91,986	173,529	9,967	17,327	9,330	15,665	103,463	5.9
Wet machine Board		606	580	124	101	100	78	1,246	110.9
Construction Paper & Board E		189,119	49,824	10,620	3,227	11,745	3,501	126,891	-41.5
Notes									
Other: No Weight Avail. ($000)			136,624		11,183		11,780	119,995	-2.9
Total Imports Incl. Other($000)			11,488,886		961,132		947,681	11,585,880	1.3

NOTE: A – API shifted import data from January 1989 to December 1988 to compensate for misallocation of reported data.

NOTE: 1990 EXPORT DATA NOT FULLY COMPARABLE WITH 1989'S.

PULP, PAPER AND PAPERBOARD EXPORTS	YEAR 1990		MAY 1990		JUNE 1990		Annual Rate YTD 1990	% Change from same Period
	Tons	$000	Tons	$000	Tons	$000	Tons (1)	Last Year
Pulpwood, Roundwood (cubic meters)	137,617	3,475	41,203	2,692	84,454	2,797	671,118	347.9
Pulpwood Chips	4,367,811	368,154	416,311	37,672	439,257	39,474	4,329,583	-1.5
Total All Exports	18,833,606	8,603,945	1,573,914	733,795	1,907,386	792,782	19,724,835	4.1
Wood Pulp,Total	8,231,172	3,512,804	442,943	244,483	580,237	295,483	5,996,355	-7.2
Cotton Pulp and Other Pulp	122,046	100,510	7,742	6,961	27,478	15,327	137,303	10.1
Waste and Old Paper	5,880,620	729,797	575,234	69,234	744,984	97,700	6,952,020	11.9
Paper, Board & Products,Total	6,299,768	4,261,035	547,996	413,238	574,669	413,272	6,837,158	7.8
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	5,259,733	2,982,686	461,756	281,523	489,997	283,307	5,804,141	10.2
Paper, Ppbd & Prod ex Cnst&WMB	6,263,491	4,246,277	547,239	412,732	573,851	412,781	6,827,980	8.3
Paper & Paperboard, Only	5,223,458	2,967,928	461,000	281,017	488,680	282,816	5,704,984	10.8
Paper, Total	1,485,752	1,233,527	131,731	122,179	113,309	110,439	1,601,581	2.1
Newsprint	824,798	357,381	50,500	26,421	32,844	17,095	516,657	-16.9
Printing & Writing	478,201	465,168	55,427	58,977	54,307	59,141	676,796	43.3
Uncoated Groundwood	88,056	84,786	8,284	8,045	6,815	6,360	75,136	-20.7
Clay Coated Paper	168,538	131,418	18,244	18,013	18,988	18,797	218,461	31.7
Uncoated Free Sheet	122,348	166,830	18,916	24,581	17,792	24,054	235,232	118.0
Other Printing & Writing	99,260	102,154	11,982	11,338	10,912	10,931	149,970	43.7
Total Pkg. & Other Paper	342,041	380,790	23,345	33,676	24,307	32,038	276,396	-21.6
Unbleached Kraft	125,818	60,318	9,039	4,364	10,988	4,987	113,033	-9.4
Other Pkg. & Indust. Paper	216,223	320,472	14,306	29,313	13,739	27,051	163,364	-30.7
Tissue	20,712	30,187	2,460	3,104	1,851	2,166	31,710	35.3
Paperboard, Total	3,787,704	1,734,402	329,279	158,838	375,551	172,377	4,293,403	14.2
Solid Wood Pulp	3,572,758	1,648,152	308,496	148,988	347,254	158,884	4,040,000	12.9
Total Linerboard	2,499,716	935,364	218,901	81,089	263,564	97,936	2,972,120	18.0
Bleached Kraft Linerboard	283,113	127,787	17,096	8,727	18,807	7,887	280,821	13.8
Unbleached Kraft Linerbd	2,216,603	807,578	201,703	72,962	245,057	90,061	2,692,499	18.5
Other Unbleached Kraft	248,575	113,315	24,831	14,230	21,343	12,071	273,631	12.4
Other Bleached Kraft	796,306	582,979	60,433	50,069	57,166	48,849	753,702	-4.1
Semi-Chemical Corrugating	31,182	14,494	2,431	950	5,182	1,826	40,548	39.3
Recycled Paperboard	184,947	88,250	22,783	11,880	29,297	13,993	253,403	36.5
Convtd Paper&Paperbd Products	1,040,035	1,278,349	86,229	131,715	84,981	129,984	1,033,016	-3.9
Paper Products, Total	473,435	832,806	35,053	82,053	34,978	81,840	416,389	-16.3
Paperboard Products, Total	566,601	445,543	51,176	49,662	50,013	48,325	616,627	6.8
Wet Machine Board	2,589	1,256	23	9	48	18	733	-78.4
Construction Paper & Board E	33,388	13,501	734	497	790	473	8,444	-74.6
Notes								
Other: No Weight Avail. ($000)		23,965		3,752		4,448	44,399	103.2
Total Exports Incl. Other($000)		8,627,911		737,547		797,230	9,246,348	6.2

SOURCE: Bureau of Census, U.S. Department of Commerce. E – Incl. estim. of tonnage based on square foot data.

(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description.

PRODUCER PRICE INDEXES 1982 = 100	YEAR 1988	YEAR 1989	APR 1990	MAY 1990	JUNE 1990	JULY 1990	Annual Rate Y-T-D 1990	% Change from same Period Last Year
Pulp, Paper and Products except Building Grades	124.8	132.4	133.4	132.9	132.8	132.6	133.1	0.9
Pulp Paper & Products, ex. Building Grades & ex. Waste Paper *	123.8	132.0	133.2	132.8	132.7	132.6	132.9	1.1
Total Wood Pulp	136.7	157.4	154.3	152.8	152.0	151.1	156.5	-0.1
Total Paper	123.2	129.6	127.8	127.9	128.8	129.1	128.1	-1.7
Writing Paper, exc. Newsprint	123.4	130.5	128.3	128.5	128.9	129.3	128.4	-2.3
Newsprint	127.6	122.5	116.1	116.0	121.0	121.6	117.2	-5.9
Total Paperboard	133.2	140.1	137.8	135.8	135.4	134.9	137.3	-2.2
Total Paper and Paperboard *	126.4	132.9	130.9	130.4	130.9	130.9	131.0	-1.8
Converted Products	123.0	131.7	135.6	135.4	135.0	134.9	134.9	3.5
Waste Paper	183.6	157.1	145.3	141.0	135.9	133.3	143.7	-9.0
All Commodities	106.9	112.2	114.0	114.5	114.2	114.3	114.4	2.1
Industrial Commodities	106.3	111.6	113.1	113.3	113.1	113.2	113.4	1.9

SOURCE: Producer Price Indexes: Bureau of Labor Statistics, U.S. Department of Labor * Computed by API

STATIONERY WHOLESALER SALES AND INVENTORIES

(Millions of 1984$ - Seasonally Adjusted)

PRINTING PAPER WHOLESALER SALES AND INVENTORIES

(Millions of 1984$ - Seasonally Adjusted)

PRINTING PAPER AND STATIONERY WHOLESALERS

Inventory Sales Ratios

of other packaging and industrial papers -- bleached kraft, specialty packaging and special industrial papers -- were reported up 3.3%.

Paperboard: The month-to-month totals of paperboard production during the first seven months of 1990 virtually matched their year-ago levels (see chart on page 4), with the year-to-date total up 0.7%. Gains were concentrated in the containerboard grades -- linerboard and corrugating medium -- largely reflecting strength in production for export. Production of containerboard for domestic use rose by 0.4% in this period, compared to a 1.4% increase in shipments of fiber boxes. These gains were more or less consistent with market activity: production of total non-durable goods in this period was up 1.4%, while total consumer goods production (which includes consumer durables) attained a 0.8% increase. Total production of all the containerboard grades was 1.4% above its year-ago level.

The rise in containerboard production was largely offset by a 1.0% drop in total boxboard. Total folding boxboard production fell 1.5. Recycled folding boxboard held to within 1% of its year-ago level, while the solid bleached grades declined 6% and the unbleached grades 7%. As in containerboard, exports were a major support to domestic production. Among the major non-packaging grades, gypsum wall board and panelboard were 11% below their corresponding 1989 totals.

Monthly trends of paperboard production by major furnishes are shown in the charts on page 8, detailed data on page 3.

FIBROUS MATERIALS

Paper and paperboard producers continue to expand their use of waste paper as a paper-making fiber (see the lower right-hand chart on page 4). The January-June 1990 waste paper consumption total was 6.1% ahead of its comparable 1989 level (see table on page 5). Consumption of wood pulp at paper and paperboard mills showed a 1.1% expansion in the 1990 period.

Although total market pulp production was down 2% in the first half of 1990, with paper grade chemical market pulp off 1.4%, the June 1990 level was sharply above the February-May 1990 monthly average (see chart on page 4). Production of chemical paper market pulp in July held to within 4,000 tons of its June level, but lower dissolving pulp output held total market pulp in July to 2% below the June high.

The record-high June-July 1990 production totals brought the year-to-date level a shade above its corresponding 1989 total. However, much of the increase went into producers' inventories, which moved up to 25 days of supply. Consumers' inventories of purchased wood pulp were at 29 days of consumption as of the end of July, compared

to 38 days in mid-1989.

Shipments of chemical paper grade market wood pulp were down 2.2% in the January-July 1990 period, largely because of lower shipments to the domestic market. Export shipments were off 0.4%, but with gains in shipments to Western Europe, Latin America and the Asian/ African region offset by year-to-year losses in shipments to Japan.

DISTRIBUTION

Two major wholesaler groups handle printing-writing papers: stationery suppliers and printing-writing paper distributors. The combined sales of these two groups, in real terms, have been growing at a rate of nearly 6% a year since 1984. In terms of current dollars, printing-writing paper wholesaler sales of all lines run about $20 billion per year; stationers' about $16 billion. Although sales at printing-writing dealers have been expanding at a rate more than twice that of stationery suppliers, stationers' sales strengthened in recent months.

Stationers have been steadily bringing inventories into closer balance with sales. Whereas early in 1984 the inventory/sales ratio of that group was about 1.30, (that is, inventories were 1.3 times sales), by early 1990 that ratio had been reduced to nearly 1.00. By contrast, the printing-writing wholesaler inventory to sales ratio fluctuated between 0.7 and 0.9 during the same period. However, in recent months this group's inventory/sales ratio remained relatively steady.

Possible explanations for these trends are:

Stationers carry a wider variety of office products, many of which experience only modest growth, while printing-writing suppliers have been concentrating on a narrower range of products which have enjoyed strong growth.

The advent of sophisticated office reprographics systems that use cut-size plain paper has reduced the need for specially printed forms, labels and similar items that stationers generally carry. This has allowed stationers to stock fewer specialties and standardize their lines. It has probably also applied some minor downward pressure on paper demand.

While it is possible that we will see a continued decline in the stationers' inventory/sales ratio, a quickening sales pace suggests that some inventory stabilization may be necessary. Thus, whatever weakness in paper demand that may have developed because of stationers' efforts to reduce stocks may soon come to an end.

The charts at the bottom of page 10 summarize these trends.

MONTHLY STATISTICAL SUMMARY INSERT
VOL. 68, NO. 8
AUGUST, 1990

PRODUCTION (000 TONS)

	(P) JULY 1990	(R) JUNE 1990	JULY 1989	FIRST 7 MONTHS 1990	FIRST 7 MONTHS 1989	% CHANGE YR TO DATE 1990/1989
PAPER GRADES						
Newsprint	560	539	522	3,791	3,488	8.7
Printing & Writing	1,867	1,766	1,708	12,896	12,488	3.3
Uncoated Groundwood (s)	157	141	147	1,021	1,001	2.0
Coated Groundwood (s)	356	342	318	2,397	2,300	4.2
Coated Free Sheet (s)	277	259	257	1,869	1,791	4.4
Total Coated Paper (s)	633	601	575	4,266	4,090	4.3
Uncoated Free Sheet Paper (s)	964	904	857	6,707	6,463	3.8
Thin Paper (s)	14	15	20	131	148	-11.4
Cotton Fiber Paper (s)	11	14	11	97	96	0.5
Bleached Bristols (s)	89	92	100	674	689	-2.2
Tissue Paper	480	479	458	3,345	3,256	2.7
Total Pkg & Other Paper	386	394	391	2,724	2,827	-3.7
Unbl. Kraft Paper (s)	206	208	212	1,403	1,549	-9.4
Other Paper	179	186	179	1,321	1,278	3.3
TOTAL PAPER	3,293	3,177	3,080	22,755	22,059	3.2
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1,735	1,681	1,687	11,664	11,435	2.0
Unbleached Kraft Linerboard	1,631	1,583	1,568	10,948	10,664	2.7
Other Unbl. Kraft Paperboard	104	98	119	717	771	-7.0
Semichemical Paperboard	493	467	479	3,330	3,325	0.2
Bleached Paperboard	360	376	404	2,610	2,647	-1.4
Recycled Paperboard	696	738	694	5,099	5,150	-1.0
TOTAL PAPERBOARD	3,284	3,262	3,264	22,704	22,557	0.7
TOTAL PAPER AND PAPERBOARD	6,578	6,440	6,344	45,459	44,615	1.9

WOOD PULP (ALL GRADES)	JUNE 1990	MAY 1990	JUNE 1989	FIRST 6 MONTHS 1990	FIRST 6 MONTHS 1989	% CHANGE YR TO DATE 1990/1989
Dissolving & Special Alpha	114	103	101	651	685	-5.1
Bleached Sulfite)	136	134	129	793	787	0.8
Unbleached Sulfite)						
Bleached & Semi-Bl. Sulfate	2,235	2,211	2,244	13,588	13,527	0.5
Unbleached Sulfate	1,829	1,814	1,795	10,939	10,806	1.2
Semichemical	341	373	353	2,204	2,188	0.8
Groundwood & Thermomechanical	519	522	480	3,146	2,944	6.9
TOTAL PULP DIVISION DATA	5,173	5,156	5,102	31,322	30,937	1.2

(s) - Shipments
P - Preliminary
R - Revised

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

INDUSTRY DATA AUGUST 31, 1990	1988	1989	1990	1990 R	1990 P	AN RATE Y-T-D 90	% CHG SAME PD 89
PAPER AND PAPERBOARD -- Tons (000)			MAY	JUNE	JULY		
Total Production (API) excluding	76,469	76,713	6,576	6,440	6,578	77,930	1.9
Total Seasonally Adjusted construction			6,500	6,483	6,647	78,024	1.9
Imports (including Products) and wet	12,788	12,910	1,100	1,109	1,100	13,264	5.1
Exports (including Products) machine	5,559	6,264	547	574	570	6,830	8.5
Apparent Consumption grades	83,697	83,359	7,052	7,018	7,177	84,364	1.7
Paper Production % Tonnage Capacity	95.4	92.6	91.2	91.1	91.4	92.6	-
Paperboard Production % Tonnage Capacity	94.5	93.5	92.1	94.3	91.6	93.2	-
PAPER, PAPERBOARD AND PRODUCTS			APRIL	MAY	JUNE		
Imports Including Construction and	13,110	13,101	1,142	1,111	1,121	13,402	2.2
Exports WMB Grades (excl. HPB)	5,891	6,300	616	548	575	6,837	7.8
MARKET WOOD PULP PRODUCTION - Tons (000)	8,565	8,664	674	698	783	8,852	-2.0
TOTAL WOOD PULP PRODUCTION - Tons (000)	61,161 f	61,998 f	5,254	5,156	5,173	62,845	1.2
WOOD PULP IMPORTS - TONS (000)	5,036	5,005	418	428	364	4,951	-1.8
WOOD PULP EXPORTS - TONS (000)	5,528	6,231	536	443	560	5,898	-7.2
RAW MATERIALS CONSUMPTION - Tons (000)							
PAPER AND BOARD MILLS excluding			APRIL	MAY	JUNE		
Wood Pulp consumption for	60,294	60,727	5,212	5,110	4,923	61,286	1.1
Waste Paper construction &	19,021	20,010	1,739	1,799	1,796	21,050	6.1
TOTAL WMB grades	79,315	80,737	6,950	6,909	6,721	82,335	2.4
PULPWOOD CONSUMPTION Cords (000) Amer. Pulpwd. Assn	95,497	96,414	8,260	8,113	8,042	96,834	1.1
EMPLOYMENT (000)			MAY	JUNE	JULY		
Paper and Allied Products Total	692.6	697.1	696.5	705.7	704.7	697.7	0.3
Pulp, Paper and Board Mills Total E	247.2	247.1	245.8	251.1	N.A.	N.A.	N.A.
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)			MAY	JUNE	JULY		
Paper and Allied Products	11.66	11.96	12.23	12.35	12.30	12.21	2.6
Pulp, Paper Mills E	14.31	14.71	15.15	15.06	N.A.	N.A.	N.A.
Paperboard Mills E	14.49	14.76	15.31	14.97	15.07	15.06	3.2
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1989 Q4	1990 Q1	1990 Q2		
(Repd. by US Dept. of Com., Ann. Rates, Bill.$)*	10.92	15.58	17.44	17.56	18.59	17.36	11.4
INDEX OF OUTPUT PER MAN-HOUR (1977=100)			MAY	JUNE	JULY		
:IN PULP, PAPER :...Production Workers	146.0	146.7	148.1	146.9	N.A.	N.A.	N.A.
:AND BOARD MILLS:...All Employees	142.8	143.5	145.2	144.1	N.A.	N.A.	N.A.
PAPER AND ALLIED PRODUCTS (Million $)			APRIL	MAY	JUNE	JUNE	
Industry Shipments (Dept. of Commerce)*	127,718	130,501	10,801	11,031	10,969	130,462	-0.2
Pulp, Paper and Paperboard*	57,177	57,700	4,559	4,724	4,819	55,996	-4.4
Inventories (End of Period) - Total Industry*	12,085	12,571	12,851	12,696	12,709	12,709	3.2
Pulp, Paper and Paperboard*	4,325	4,980	5,000	5,040	5,085	5,085	7.6
PAPER AND ALLIED PRODUCTS COMPANIES (Million $)			1989 Q4	1990 Q1	1990 Q2		
Sales (Corporations Only)	107,221	113,573	28,861	28,534	28,844	114,756	1.8
Earnings (Corporations Only)	8,081	7,047	1,160	1,389	1,630	6,038	-34.8
Depreciation (Corporations Only)	4,825	5,010	1,301	1,347	1,341	5,376	9.8
Net Worth (Corporations Only)	42,940	45,642	45,642	46,519	45,597	45,597	1.4
PRICE INDEXES (Bureau of Labor Stats)1982=100			MAY	JUNE	JULY		
Pulp, Paper & Products, ex. Building Grades	124.8	132.4	132.9	132.6	132.6	133.1	0.9
Wood Pulp	156.7	157.4	152.8	152.0	151.1	155.4	-0.1
Waste Paper	183.6	157.1	141.0	135.9	133.0	143.7	-9.0
Paper	123.2	129.6	127.9	128.8	129.1	128.1	-1.7
Paperboard	133.2	140.1	135.8	135.4	134.9	137.2	-2.2
PAPER DEMAND (INDEXED: 1967=100)			MAY	JUNE	JULY		
Total Paper Production *	103.9	103.6	107.6	104.9	109.9	106.5	3.2
Paper New Supply *	103.8	102.3	105.7	103.8	85.4	102.0	0.6
Demand Indicators - (Weighted Average) *	103.8	107.8	110.6	110.5	110.7	110.3	2.7
Production of Nondurable Goods *...(21.2%)	103.6	106.4	107.4	107.6	108.0	107.6	1.4
Disposable Income *...(23.9%)	104.4	107.2	108.5	108.8	109.1	108.6	1.9
Total Printing and Publishing *...(54.9%)	103.6	108.6	112.8	112.4	112.5	112.0	3.6
PAPERBOARD DEMAND (INDEXED: 1967=100)			MAY	JUNE	JULY		
Total Paperboard Production *	101.7	102.6	102.3	104.4	104.7	103.4	0.6
Production for Domestic Use	102.0	102.7	100.9	103.3	114.5	103.8	0.9
Demand Indicators - (Weighted Average) *	104.7	107.2	108.0	108.7	108.6	107.8	0.7
Production of Consumer Goods *...(62.06%)	104.0	106.6	107.4	108.1	107.7	107.3	0.8
Production of Equipment *...(5.75%)	107.5	112.3	116.2	116.5	115.8	114.7	2.3
Production of Materials *...(32.19%)	105.6	107.4	107.8	108.4	108.1	107.6	0.1
MARKET DATA			APRIL	MAY	JUNE	JUNE	
Consumption by Publishers - Tons (000)	13,497	13,493	1,144	1,179	1,134	13,391	1.2
Newspaper Pub. and Printing Empl. Total(000)	475	473	475	477	480	477	1.0
Magazine Advertising Pages (PIB, Inc.)	172,580	179,795	16,796	15,302	14,080	171,083	-4.3
Wholesalers Sales and Inventories (Million $)							
Total Paper & Pap. Prdcts. ex Wallpaper Sales	52,377	56,803	4,161	4,331	4,259	60,182	9.4
Inventories (End of Period)	4,436	4,506	4,087	3,982	4,052	4,052	-10.0
FIBRE BOX DATA (Fibre Box Association)			MAY	JUNE	JULY		
Fibre Box Shipments (Million square feet)	308,507	313,400	27,360	26,266	26,444	317,431	1.4
Container'bd Inventory at Mill & Plant (000 Tons)	2,553	2,589	2,542	2,503	2,640	2,640	-1.8
RETAIL TRADE (Billion $)							
Total Retail Sales *	1,622	1,711	147.8	148.4	149.5	1,789	5.5
Nondurable Goods Stores Sales *	995	1,062	94.3	95.6	95.5	1,136	8.2
GENERAL ECONOMIC DATA			MAY	JUNE	JULY		
TOTAL INDUSTRIAL PRODUCTION (INDEX 1987 = 100)*	105.4	108.1	109.4	108.9	108.9	108.0	0.9
PRODUCER PRICES (ALL COMMODITIES) (INDEX 1982=100)	106.9	112.2	114.5	114.2	114.3	114.4	2.1
CONSUMER PRICES (ALL ITEMS-URBAN CON.) (1982-4=100)	118.3	124.0	129.2	129.9	130.4	129.9	4.9
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billions$)			1989 QIV	1990 Q1	1990 Q2		
G.N.P. or Expenditure - Current $	4,874	5,201	5,289	5,375	5,452	5,414	5.4
G.N.P. or Expenditure - 1982 $	4,017	4,118	4,133	4,151	4,163	4,157	1.3
PAPER AND PAPERBOARD CONSUMPTION - POUNDS PER CAPITA	677	667				674	

f - Wood Pulp Prod exc del., expls & scr. R - Revised E - Last month estimated by API

Y - Full year estimated by Dep't of Commerce * Seasonally Adjusted